

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/IB2004/050929

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 G11B20/18

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 G11B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P, X	WO 03/098626 A (BLACQUIERE JOHANNIS F R ; KELLY DECLAN P (NL); KONINKL PHILIPS ELECTRO) 27 November 2003 (2003-11-27) the whole document	1-13
X	WO 95/24038 A (CIRRUS LOGIC INC) 8 September 1995 (1995-09-08) page 1, line 11 - page 13, line 18 page 15, line 25 - page 16, line 17 page 18, line 9 - page 20, line 28 page 27, line 6 - page 30, line 23 figures 1, 2a, 2b, 3a-3e, 4, 5a, 5b, 12, 14	1-13
A	US 5 991 253 A (YAMAMURO MIKIO) 23 November 1999 (1999-11-23) column 13, line 58 - column 15, line 39 figures 13-17	1-13

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

\* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- \*&\* document member of the same patent family

Date of the actual completion of the international search

5 November 2004

Date of mailing of the international search report

12/11/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Barel-Faucheux, C

## INTERNATIONAL SEARCH REPORT

In tional Application No  
PCT/IB2004/050929

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 271 018 A (CHAN LITKO) 14 December 1993 (1993-12-14) column 1, line 29 - column 4, line 5 column 6, line 25 - column 8, line 39 figures 1A-1C, 3-5	1-13
A	WO 01/06512 A (GESTEL WILHELMUS J VAN ; KONINKL PHILIPS ELECTRONICS NV (NL)) 25 January 2001 (2001-01-25) cited in the application the whole document	1-13
A	US 2001/002488 A1 (SIMS J ROBERT ET AL) 31 May 2001 (2001-05-31) cited in the application the whole document	1-13
A	WO 98/16014 A (PHILIPS ELECTRONICS NV ; PHILIPS NORDEN AB (SE)) 16 April 1998 (1998-04-16) cited in the application the whole document	1-13

# INTERNATIONAL SEARCH REPORT

Information on patent family members

In International Application No

PCT/IB2004/050929

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
WO 03098626	A	27-11-2003	WO	03098626 A1	27-11-2003
WO 9524038	A	08-09-1995	EP	0748504 A1	18-12-1996
			JP	10500520 T	13-01-1998
			KR	276148 B1	15-12-2000
			WO	9524038 A1	08-09-1995
			US	5848438 A	08-12-1998
			US	6560055 B1	06-05-2003
			US	6025966 A	15-02-2000
US 5991253	A	23-11-1999	JP	3113200 B2	27-11-2000
			JP	9259547 A	03-10-1997
			CN	1164731 A ,B	12-11-1997
			DE	69700222 D1	24-06-1999
			DE	69700222 T2	25-11-1999
			EP	0798716 A2	01-10-1997
			KR	262469 B1	01-08-2000
			US	5883867 A	16-03-1999
US 5271018	A	14-12-1993	NONE		
WO 0106512	A	25-01-2001	AU	6434100 A	05-02-2001
			CA	2344414 A1	25-01-2001
			CN	1321313 T	07-11-2001
			CZ	20010908 A3	17-10-2001
			WO	0106512 A1	25-01-2001
			EP	1125293 A1	22-08-2001
			HU	0104172 A2	28-03-2002
			JP	2003505813 T	12-02-2003
			NO	20011291 A	09-05-2001
			PL	346639 A1	25-02-2002
			TW	580694 B	21-03-2004
US 2001002488	A1	31-05-2001	US	6212647 B1	03-04-2001
			US	2004078648 A1	22-04-2004
WO 9816014	A	16-04-1998	AU	4217397 A	05-05-1998
			BR	9706828 A	23-03-1999
			CN	1209917 A ,B	03-03-1999
			EP	0865685 A1	23-09-1998
			HU	9902037 A2	29-11-1999
			WO	9816014 A1	16-04-1998
			ID	20262 A	12-11-1998
			JP	2000502539 T	29-02-2000
			PL	327230 A1	07-12-1998
			RU	2178618 C2	20-01-2002
			US	6778965 B1	17-08-2004
			US	6269338 B1	31-07-2001
			EP	0922334 A2	16-06-1999
			WO	9856116 A2	10-12-1998
			JP	2001501421 T	30-01-2001
			US	2001041984 A1	15-11-2001